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(54) Title: **ErbB RECEPTOR METHODS AND KITS FOR MONITORING CHEMOTHERAPY RESISTANCE**

(57) Abstract: The present invention relates to monitoring of ErbB receptor levels in methods and kits for determining the prognosis of cancer in a subject or improving the effectiveness of a cancer treatment. The invention also provides a method for predicting the recurrence of clinical signs of a cancer in a subject. In some embodiments, the invention provides methods for predicting the development of resistance to a chemotherapy regimen. In other embodiments, the invention provides methods for improving the effectiveness of a cancer treatment in a subject by monitoring levels of ErbB-2, ErbB-3 and/or ErbB-4. Preferably, the subject in the methods of the invention has been previously treated with a chemotherapy regimen for an ErbB-1 positive tumor.

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